

SEQUENCE LISTING

*Part of  
Paper No. 8*

<110> INCYTE PHARMACEUTICALS, INC.

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HILLMAN, Jennifer L.  
YUE, Henry  
LAL, Praeti  
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LU, Dyung Aina M.  
AZIMZAI, Yalda  
YANG, Junming

<120> HUMAN HYDROLASE PROTEINS

<130> PF-0634 PCT

<140> To Be Assigned

<141> Herewith

<150> 09/190,937; unassigned; 60/135,519

<151> 1998-11-12; 1998-11-12; 1999-05-21

<160> 35

<170> PERL Program

<210> 1

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2293764CD1

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Met	Lys	Ala	Trp	Gly	Thr	Val	Val	Val	Thr	Leu	Ala	Thr	Leu	Met
1				5					10					15
Val	Val	Thr	Val	Asp	Ala	Lys	Ile	Tyr	Glu	Leu	Cys	Glu	Leu	Ala
				20					25					30
Ala	Arg	Leu	Glu	Arg	Ala	Gly	Leu	Asn	Gly	Tyr	Lys	Gly	Tyr	Gly
				35					40					45
Val	Gly	Asp	Trp	Leu	Cys	Met	Ala	His	Tyr	Glu	Ser	Gly	Phe	Asp
				50					55					60
Thr	Ala	Phe	Val	Asp	His	Asn	Pro	Asp	Gly	Ser	Ser	Glu	Tyr	Gly
				65					70					75
Ile	Phe	Gln	Leu	Asn	Ser	Ala	Trp	Trp	Cys	Asp	Asn	Gly	Ile	Thr
				80					85					90
Pro	Thr	Lys	Asn	Leu	Cys	His	Met	Asp	Cys	His	Asp	Leu	Leu	Asn
				95					100					105
Arg	His	Ile	Leu	Asp	Asp	Ile	Arg	Cys	Ala	Lys	Gln	Ile	Val	Ser

110	115	120
Ser Gln Asn Gly Leu Ser Ala Trp Thr	Ser Trp Arg Leu His Cys	
125	130	135
Ser Gly His Asp Leu Ser Glu Trp Leu Lys Gly Cys Asp Met His		
140	145	150
Val Lys Ile Asp Pro Lys Ile His Pro		
155		

&lt;210&gt; 2

&lt;211&gt; 285

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 949738CD1

&lt;400&gt; 2

Met Gly Thr Pro Gly Glu Gly Leu Gly Arg Cys Ser His Ala Leu		
1	5	10
Ile Arg Gly Val Pro Glu Ser Leu Ala Ser Gly Glu Gly Ala Gly		
20	25	30
Ala Gly Leu Pro Ala Leu Asp Leu Ala Lys Ala Gln Arg Glu His		
35	40	45
Gly Val Leu Gly Gly Lys Leu Arg Gln Arg Leu Gly Leu Gln Leu		
50	55	60
Leu Glu Leu Pro Pro Glu Glu Ser Leu Pro Leu Gly Pro Leu Leu		
65	70	75
Gly Asp Thr Ala Val Ile Gln Gly Asp Thr Ala Leu Ile Thr Arg		
80	85	90
Pro Trp Ser Pro Ala Arg Arg Pro Glu Val Asp Gly Val Arg Lys		
95	100	105
Ala Leu Gln Asp Leu Gly Leu Arg Ile Val Glu Ile Gly Asp Glu		
110	115	120
Asn Ala Thr Leu Asp Gly Thr Asp Val Leu Phe Thr Gly Arg Glu		
125	130	135
Phe Phe Val Gly Leu Ser Lys Trp Thr Asn His Arg Gly Ala Glu		
140	145	150
Ile Val Ala Asp Thr Phe Arg Asp Phe Ala Val Ser Thr Val Pro		
155	160	165
Val Ser Gly Pro Ser His Leu Arg Gly Leu Cys Gly Met Gly Gly		
170	175	180
Pro Arg Thr Val Val Ala Gly Ser Ser Asp Ala Ala Gln Lys Ala		
185	190	195
Val Arg Ala Met Ala Val Leu Thr Asp His Pro Tyr Ala Ser Leu		
200	205	210
Thr Leu Pro Asp Asp Ala Ala Ala Asp Cys Leu Phe Leu Arg Pro		
215	220	225
Gly Leu Pro Gly Val Pro Pro Phe Leu Leu His Arg Gly Gly Gly		
230	235	240
Asp Leu Pro Asn Ser Gln Glu Ala Leu Gln Lys Leu Ser Asp Val		
245	250	255
Thr Leu Val Pro Val Ser Cys Ser Glu Leu Glu Lys Ala Gly Ala		
260	265	270

<210> 3  
<211> 331  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1297034CD1

<400> 3

Met	Trp	Leu	Trp	Glu	Asp	Gln	Gly	Gly	Leu	Leu	Gly	Pro	Phe	Ser
1				5					10					15
Phe	Leu	Leu	Leu	Val	Leu	Leu	Leu	Val	Thr	Arg	Ser	Pro	Val	Asn
				20					25					30
Ala	Cys	Leu	Leu	Thr	Gly	Ser	Leu	Phe	Val	Leu	Leu	Arg	Val	Phe
				35					40					45
Ser	Phe	Glu	Pro	Val	Pro	Ser	Cys	Arg	Ala	Leu	Gln	Val	Leu	Lys
				50					55					60
Pro	Arg	Asp	Arg	Ile	Ser	Ala	Ile	Ala	His	Arg	Gly	Gly	Ser	His
				65					70					75
Asp	Ala	Pro	Glu	Asn	Thr	Leu	Ala	Ala	Ile	Arg	Gln	Ala	Ala	Lys
				80					85					90
Asn	Gly	Ala	Thr	Gly	Val	Glu	Leu	Asp	Ile	Glu	Phe	Thr	Ser	Asp
				95					100					105
Gly	Ile	Pro	Val	Leu	Met	His	Asp	Asn	Thr	Val	Asp	Arg	Thr	Thr
				110					115					120
Asp	Gly	Thr	Gly	Arg	Leu	Cys	Asp	Leu	Thr	Phe	Glu	Gln	Ile	Arg
				125					130					135
Lys	Leu	Asn	Pro	Ala	Ala	Asn	His	Arg	Leu	Arg	Asn	Asp	Phe	Pro
				140					145					150
Asp	Glu	Lys	Ile	Pro	Thr	Leu	Arg	Glu	Ala	Val	Ala	Glu	Cys	Leu
				155					160					165
Asn	His	Asn	Leu	Thr	Ile	Phe	Phe	Asp	Val	Lys	Gly	His	Ala	His
				170					175					180
Lys	Ala	Thr	Glu	Ala	Leu	Lys	Lys	Met	Tyr	Met	Glu	Phe	Pro	Gln
				185					190					195
Leu	Tyr	Asn	Asn	Ser	Val	Val	Cys	Ser	Phe	Leu	Pro	Glu	Val	Ile
				200					205					210
Tyr	Lys	Met	Arg	Gln	Thr	Asp	Arg	Asp	Val	Ile	Thr	Ala	Leu	Thr
				215					220					225
His	Arg	Pro	Trp	Ser	Leu	Ser	His	Thr	Gly	Asp	Gly	Lys	Pro	Arg
				230					235					240
Tyr	Asp	Thr	Phe	Trp	Lys	His	Phe	Ile	Phe	Val	Met	Met	Asp	Ile
				245					250					255
Leu	Leu	Asp	Trp	Ser	Met	His	Asn	Ile	Leu	Trp	Tyr	Leu	Cys	Gly
				260					265					270
Ile	Ser	Ala	Phe	Leu	Met	Gln	Lys	Asp	Phe	Val	Ser	Pro	Ala	Tyr
				275					280					285
Leu	Lys	Lys	Trp	Ser	Ala	Lys	Gly	Ile	Gln	Val	Val	Gly	Trp	Thr
				290					295					300
Val	Asn	Thr	Phe	Asp	Glu	Lys	Ser	Tyr	Tyr	Glu	Ser	His	Leu	Gly

	305		310		315
Ser Ser Tyr Ile Thr Asp Ser Met Val Glu Asp Cys Glu Pro His					
	320		325		330
Phe					

&lt;210&gt; 4

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1553276CD1

&lt;400&gt; 4

Met Ala Ala Ala Leu Ala Leu Val Ala Gly Val Leu Ser Gly Ala			
1	5	10	15
Val Leu Pro Leu Trp Ser Ala Leu Pro Gln Tyr Lys Lys Lys Ile			
	20	25	30
Thr Asp Arg Cys Phe His His Ser Glu Cys Tyr Ser Gly Cys Cys			
	35	40	45
Leu Met Asp Leu Asp Ser Gly Gly Ala Phe Cys Ala Pro Arg Ala			
	50	55	60
Arg Ile Thr Met Ile Cys Leu Pro Gln Trp Leu Glu Leu Phe Lys			
	65	70	75
Gly Arg Asp Cys Ile Ile Phe Ile Tyr Glu Ala Pro Thr Pro Ser			
	80	85	90
Leu Val Ser Ala His Asn Gln Gly Ser Tyr Gln His His Leu Pro			
	95	100	105
Leu Pro Asp Gly Leu Asp Val His Ile Gln Gly Leu Asp Val Phe			
	110	115	120
Pro Pro Val Pro Tyr Asp Leu Glu Glu Asp Ala Gly Trp Ser Leu			
	125	130	135
Leu Pro Trp Gly His Arg Pro Trp Leu Pro Pro Thr Cys Ser Lys			
	140	145	150
Ser Ser Ser			

&lt;210&gt; 5

&lt;211&gt; 571

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1702211CD1

&lt;400&gt; 5

Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val			
1	5	10	15
Val Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu			
	20	25	30
Val Ala Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly			
	35	40	45

Arg	Gln	Val	Gly	Val	Lys	Gly	Thr	Asp	Arg	Leu	Val	Asn	Val	Phe	50	55	60
Leu	Gly	Ile	Pro	Phe	Ala	Gln	Pro	Pro	Leu	Gly	Pro	Asp	Arg	Phe	65	70	75
Ser	Ala	Pro	His	Pro	Ala	Gln	Pro	Trp	Glu	Gly	Val	Arg	Asp	Ala	80	85	90
Ser	Thr	Ala	Pro	Pro	Met	Cys	Leu	Gln	Asp	Val	Glu	Ser	Met	Asn	95	100	105
Ser	Ser	Arg	Phe	Val	Leu	Asn	Gly	Lys	Gln	Gln	Ile	Phe	Ser	Val	110	115	120
Ser	Glu	Asp	Cys	Leu	Val	Leu	Asn	Val	Tyr	Ser	Pro	Ala	Glu	Val	125	130	135
Pro	Ala	Gly	Ser	Gly	Arg	Pro	Val	Met	Val	Trp	Val	His	Gly	Gly	140	145	150
Ala	Leu	Ile	Thr	Gly	Ala	Ala	Thr	Ser	Tyr	Asp	Gly	Ser	Ala	Leu	155	160	165
Ala	Ala	Tyr	Gly	Asp	Val	Val	Val	Val	Thr	Val	Gln	Tyr	Arg	Leu	170	175	180
Gly	Val	Leu	Gly	Phe	Phe	Ser	Thr	Gly	Asp	Glu	His	Ala	Pro	Gly	185	190	195
Asn	Gln	Gly	Phe	Leu	Asp	Val	Val	Ala	Ala	Leu	Arg	Trp	Val	Gln	200	205	210
Glu	Asn	Ile	Ala	Pro	Phe	Gly	Gly	Asp	Leu	Asn	Cys	Val	Thr	Val	215	220	225
Phe	Gly	Gly	Ser	Ala	Gly	Gly	Ser	Ile	Ile	Ser	Gly	Leu	Val	Leu	230	235	240
Ser	Pro	Val	Ala	Ala	Gly	Leu	Phe	His	Arg	Ala	Ile	Thr	Gln	Ser	245	250	255
Gly	Val	Ile	Thr	Thr	Pro	Gly	Ile	Ile	Asp	Ser	His	Pro	Trp	Pro	260	265	270
Leu	Ala	Gln	Lys	Ile	Ala	Asn	Thr	Leu	Ala	Cys	Ser	Ser	Ser	Ser	275	280	285
Pro	Ala	Glu	Met	Val	Gln	Cys	Leu	Gln	Gln	Lys	Glu	Gly	Glu	Glu	290	295	300
Leu	Val	Leu	Ser	Lys	Lys	Leu	Lys	Asn	Thr	Ile	Tyr	Pro	Leu	Thr	305	310	315
Val	Asp	Gly	Thr	Val	Phe	Pro	Lys	Ser	Pro	Lys	Glu	Leu	Leu	Lys	320	325	330
Glu	Lys	Pro	Phe	His	Ser	Val	Pro	Phe	Leu	Met	Gly	Val	Asn	Asn	335	340	345
His	Glu	Phe	Ser	Trp	Leu	Ile	Pro	Arg	Gly	Trp	Gly	Leu	Leu	Asp	350	355	360
Thr	Met	Glu	Gln	Met	Ser	Arg	Glu	Asp	Met	Leu	Ala	Ile	Ser	Thr	365	370	375
Pro	Val	Leu	Thr	Ser	Leu	Asp	Val	Pro	Pro	Glu	Met	Met	Pro	Thr	380	385	390
Val	Ile	Asp	Glu	Tyr	Leu	Gly	Ser	Asn	Ser	Asp	Ala	Gln	Ala	Lys	395	400	405
Cys	Gln	Ala	Phe	Gln	Glu	Phe	Met	Gly	Asp	Val	Phe	Ile	Asn	Val	410	415	420
Pro	Thr	Val	Ser	Phe	Ser	Arg	Tyr	Leu	Arg	Asp	Ser	Gly	Ser	Pro	425	430	435
Val	Phe	Phe	Tyr	Glu	Phe	Gln	His	Arg	Pro	Ser	Ser	Phe	Ala	Lys	440	445	450
Ile	Lys	Pro	Ala	Trp	Val	Lys	Ala	Asp	His	Gly	Ala	Glu	Gly	Ala			

	455		460		465
Phe Val Phe Gly	Gly Pro Phe Leu Met	Asp Glu Ser Ser Arg	Leu		
	470		475		480
Ala Phe Pro Glu	Ala Thr Glu Glu Glu	Lys Gln Leu Ser Leu	Thr		
	485		490		495
Met Met Ala Gln	Trp Thr His Phe Ala	Arg Thr Gly Asp Pro	Asn		
	500		505		510
Ser Lys Ala Leu	Pro Pro Trp Pro Gln	Phe Asn Gln Ala Glu	Gln		
	515		520		525
Tyr Leu Glu Ile	Asn Pro Val Pro Arg	Ala Gly Gln Lys Phe	Arg		
	530		535		540
Glu Ala Trp Met	Gln Phe Trp Ser Glu	Thr Leu Pro Ser Lys	Ile		
	545		550		555
Gln Gln Trp His	Gln Lys Gln Lys Asn	Arg Lys Ala Gln Glu	Asp		
	560		565		570

Leu

&lt;210&gt; 6

&lt;211&gt; 347

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1859618CD1

&lt;400&gt; 6

Met Ser Ser Trp	Ser Arg Gln Arg	Pro Lys Ser Pro	Gly Gly Ile
1	5	10	15
Gln Pro His Val	Ser Arg Thr Leu	Phe Leu Leu Leu	Leu Ala
	20	25	30
Ala Ser Ala Trp	Gly Val Thr Leu	Ser Pro Lys Asp	Cys Gln Val
	35	40	45
Phe Arg Ser Asp	His Gly Ser Ser	Ile Ser Cys Gln	Pro Pro Ala
	50	55	60
Glu Ile Pro Gly	Tyr Leu Pro Ala	Asp Thr Val His	Leu Ala Val
	65	70	75
Glu Phe Phe Asn	Leu Thr His Leu	Pro Ala Asn Leu	Leu Gln Gly
	80	85	90
Ala Ser Lys Leu	Gln Glu Leu His	Leu Ser Ser Asn	Gly Leu Glu
	95	100	105
Ser Leu Ser Pro	Glu Phe Leu Arg	Pro Val Pro Gln	Leu Arg Val
	110	115	120
Leu Asp Leu Thr	Arg Asn Ala Leu	Thr Gly Leu Pro	Pro Gly Leu
	125	130	135
Phe Gln Ala Ser	Ala Thr Leu Asp	Thr Leu Val Leu	Lys Glu Asn
	140	145	150
Gln Leu Glu Val	Leu Glu Val Ser	Trp Leu His Gly	Leu Lys Ala
	155	160	165
Leu Gly His Leu	Asp Leu Ser Gly	Asn Arg Leu Arg	Lys Leu Pro
	170	175	180
Pro Gly Leu Leu	Ala Asn Phe Thr	Leu Leu Arg Thr	Leu Asp Leu
	185	190	195
Gly Glu Asn Gln	Leu Glu Thr Leu	Pro Pro Asp Leu	Leu Arg Gly

200	205	210
Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu Gln		
215	220	225
Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr		
230	235	240
Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala		
245	250	255
Phe Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn		
260	265	270
Ser Leu Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln		
275	280	285
Pro Asn Trp Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro		
290	295	300
Trp Ile Cys Asp Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln		
305	310	315
Ala Gln Lys Asp Lys Met Phe Ser Gln Asn Asp Thr Arg Cys Ala		
320	325	330
Gly Pro Glu Ala Val Lys Gly Gln Thr Leu Leu Ala Val Ala Lys		
335	340	345
Ser Gln		

&lt;210&gt; 7

&lt;211&gt; 194

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2011071CD1

&lt;400&gt; 7

Met Gln Asp Ala Pro Leu Ser Cys Leu Ser Pro Thr Arg Trp Ser		
1	5	10
Ser Val Ser Ser Ala Asp Ser Thr Glu Lys Ser Ala Ser Gly Ala		
20	25	30
Gly Thr Arg Asn Leu Pro Phe Gln Phe Cys Leu Arg Gln Ala Leu		
35	40	45
Arg Met Lys Ala Ala Gly Ile Leu Thr Leu Ile Gly Cys Leu Val		
50	55	60
Thr Gly Ala Glu Ser Lys Ile Tyr Thr Arg Cys Lys Leu Ala Lys		
65	70	75
Ile Phe Ser Arg Ala Gly Leu Asp Asn Tyr Trp Gly Phe Ser Leu		
80	85	90
Gly Asn Trp Ile Cys Met Ala Tyr Tyr Glu Ser Gly Tyr Asn Thr		
95	100	105
Thr Ala Pro Thr Val Leu Asp Asp Gly Ser Ile Asp Tyr Gly Ile		
110	115	120
Phe Gln Ile Asn Thr Phe Ala Trp Cys Arg Arg Gly Lys Leu Lys		
125	130	135
Glu Asn Asn His Cys His Val Ala Cys Ser Ala Leu Ile Thr Asp		
140	145	150
Asp Leu Thr Asp Ala Ile Ile Cys Ala Arg Lys Ile Val Lys Glu		
155	160	165
Thr Gln Gly Met Asn Tyr Trp Gln Gly Trp Lys Lys His Cys Glu		

	170		175		180
Gly Arg Asp Leu Ser Glu Trp Lys Lys Gly Cys Glu Val Ser					
	185		190		

&lt;210&gt; 8

&lt;211&gt; 361

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2186517CD1

&lt;400&gt; 8

Met Ala Trp Gln Gly Trp Pro Ala Ala Trp Gln Trp Val Ala Gly		
1 5 10 15		
Cys Trp Leu Leu Leu Val Leu Val Leu Val Leu Leu Val Ser Pro		
20 25 30		
Arg Gly Cys Arg Ala Arg Arg Gly Leu Arg Gly Leu Leu Met Ala		
35 40 45		
His Ser Gln Arg Leu Leu Phe Arg Ile Gly Tyr Ser Leu Tyr Thr		
50 55 60		
Arg Thr Trp Leu Gly Tyr Leu Phe Tyr Arg Gln Gln Leu Arg Arg		
65 70 75		
Ala Arg Asn Arg Tyr Pro Lys Gly His Ser Lys Thr Gln Thr Arg		
80 85 90		
Leu Phe Asn Gly Val Lys Val Leu Pro Ile Pro Val Leu Ser Asp		
95 100 105		
Asn Tyr Ser Tyr Leu Ile Ile Asp Thr Gln Ala Gln Leu Ala Val		
110 115 120		
Ala Val Asp Pro Ser Asp Pro Arg Ala Val Gln Ala Ser Ile Glu		
125 130 135		
Lys Glu Gly Val Thr Leu Val Ala Ile Leu Cys Thr His Lys His		
140 145 150		
Trp Asp His Ser Gly Gly Asn Arg Asp Leu Ser Arg Arg His Arg		
155 160 165		
Asp Cys Arg Val Tyr Gly Ser Pro Gln Asp Gly Ile Pro Tyr Leu		
170 175 180		
Thr His Pro Leu Cys His Gln Asp Val Val Ser Val Gly Arg Leu		
185 190 195		
Gln Ile Arg Ala Leu Ala Thr Pro Gly His Thr Gln Gly His Leu		
200 205 210		
Val Tyr Leu Leu Asp Gly Glu Pro Tyr Lys Gly Pro Ser Cys Leu		
215 220 225		
Phe Ser Gly Asp Leu Leu Phe Leu Ser Gly Cys Gly Arg Thr Phe		
230 235 240		
Glu Gly Asn Ala Glu Thr Met Leu Ser Ser Leu Asp Thr Val Leu		
245 250 255		
Gly Leu Gly Asp Asp Thr Leu Leu Trp Pro Gly His Glu Tyr Ala		
260 265 270		
Glu Glu Asn Leu Gly Phe Ala Gly Val Val Glu Pro Glu Asn Leu		
275 280 285		
Ala Arg Glu Arg Lys Met Gln Trp Val Gln Arg Gln Arg Leu Glu		
290 295 300		



Arg	Lys	Gly	Thr	Cys	Pro	Ser	Thr	Leu	Gly	Glu	Glu	Arg	Ser	Tyr
				305					310					315
Asn	Pro	Phe	Leu	Arg	Thr	His	Cys	Leu	Ala	Leu	Gln	Glu	Ala	Leu
				320					325					330
Gly	Pro	Gly	Pro	Gly	Pro	Thr	Gly	Asp	Asp	Asp	Tyr	Ser	Arg	Ala
				335					340					345
Gln	Leu	Leu	Glu	Glu	Leu	Arg	Arg	Leu	Lys	Asp	Met	His	Lys	Ser
				350					355					360

Lys

&lt;210&gt; 9

&lt;211&gt; 306

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2253585CD1

&lt;400&gt; 9

Met	Leu	Arg	Trp	Thr	Arg	Ala	Trp	Arg	Leu	Pro	Arg	Glu	Gly	Leu
1				5					10					15
Gly	Pro	His	Gly	Pro	Ser	Phe	Ala	Arg	Val	Pro	Val	Ala	Pro	Ser
				20					25					30
Ser	Ser	Ser	Gly	Gly	Arg	Gly	Gly	Ala	Glu	Pro	Arg	Pro	Leu	Pro
				35					40					45
Leu	Ser	Tyr	Arg	Leu	Leu	Asp	Gly	Glu	Ala	Ala	Leu	Pro	Ala	Val
				50					55					60
Val	Phe	Leu	His	Gly	Leu	Phe	Gly	Ser	Lys	Thr	Asn	Phe	Asn	Ser
				65					70					75
Ile	Ala	Lys	Ile	Leu	Ala	Gln	Gln	Thr	Gly	Arg	Arg	Val	Leu	Thr
				80					85					90
Val	Asp	Ala	Arg	Asn	His	Gly	Asp	Ser	Pro	His	Ser	Pro	Asp	Met
				95					100					105
Ser	Tyr	Glu	Ile	Met	Ser	Gln	Asp	Leu	Gln	Asp	Leu	Leu	Pro	Gln
				110					115					120
Leu	Gly	Leu	Val	Pro	Cys	Val	Val	Val	Gly	His	Ser	Met	Gly	Gly
				125					130					135
Lys	Thr	Ala	Met	Leu	Leu	Ala	Leu	Gln	Arg	Pro	Glu	Leu	Val	Glu
				140					145					150
Arg	Leu	Ile	Ala	Val	Asp	Ile	Ser	Pro	Val	Glu	Ser	Thr	Gly	Val
				155					160					165
Ser	His	Phe	Ala	Thr	Tyr	Val	Ala	Ala	Met	Arg	Ala	Ile	Asn	Ile
				170					175					180
Ala	Asp	Glu	Leu	Pro	Arg	Ser	Arg	Ala	Arg	Lys	Leu	Ala	Asp	Glu
				185					190					195
Gln	Leu	Ser	Ser	Val	Ile	Gln	Asp	Met	Ala	Val	Arg	Gln	His	Leu
				200					205					210
Leu	Thr	Asn	Leu	Val	Glu	Val	Asp	Gly	Arg	Phe	Val	Trp	Arg	Val
				215					220					225
Asn	Leu	Asp	Ala	Leu	Thr	Gln	His	Leu	Asp	Lys	Ile	Leu	Ala	Phe
				230					235					240
Pro	Gln	Arg	Gln	Glu	Ser	Tyr	Leu	Gly	Pro	Thr	Leu	Phe	Leu	Leu
				245					250					255

Gly	Gly	Asn	Ser	Gln	Phe	Val	His	Pro	Ser	His	His	Pro	Glu	Ile
				260					265					270
Met	Arg	Leu	Phe	Pro	Arg	Ala	Gln	Met	Gln	Thr	Val	Pro	Asn	Ala
				275					280					285
Gly	His	Trp	Ile	His	Ala	Asp	Arg	Pro	Gln	Asp	Phe	Ile	Ala	Ala
				290					295					300
Ile	Arg	Gly	Phe	Leu	Val									
				305										

<210> 10  
 <211> 483  
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<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2447520CD1

<400> 10

Met	Ser	Asn	Lys	Leu	Leu	Ser	Pro	His	Pro	His	Ser	Val	Val	Leu
1				5					10					15
Arg	Ser	Glu	Phe	Lys	Met	Ala	Ser	Ser	Pro	Ala	Val	Leu	Arg	Ala
				20					25					30
Ser	Arg	Leu	Tyr	Gln	Trp	Ser	Leu	Lys	Ser	Ser	Ala	Gln	Phe	Leu
				35					40					45
Gly	Ser	Pro	Gln	Leu	Arg	Gln	Val	Gly	Gln	Ile	Ile	Arg	Val	Pro
				50					55					60
Ala	Arg	Met	Ala	Ala	Thr	Leu	Ile	Leu	Glu	Pro	Ala	Gly	Arg	Cys
				65					70					75
Cys	Trp	Asp	Glu	Pro	Val	Arg	Ile	Ala	Val	Arg	Gly	Leu	Ala	Pro
				80					85					90
Glu	Gln	Pro	Val	Thr	Leu	Arg	Ala	Ser	Leu	Arg	Asp	Glu	Lys	Gly
				95					100					105
Ala	Leu	Phe	Gln	Ala	His	Ala	Arg	Tyr	Arg	Ala	Asp	Thr	Leu	Gly
				110					115					120
Glu	Leu	Asp	Leu	Glu	Arg	Ala	Pro	Ala	Leu	Gly	Gly	Ser	Phe	Ala
				125					130					135
Gly	Leu	Glu	Pro	Met	Gly	Leu	Leu	Trp	Ala	Leu	Glu	Pro	Glu	Lys
				140					145					150
Pro	Leu	Val	Arg	Leu	Val	Lys	Arg	Asp	Val	Arg	Thr	Pro	Leu	Ala
				155					160					165
Val	Glu	Leu	Glu	Val	Leu	Asp	Gly	His	Asp	Pro	Asp	Pro	Gly	Arg
				170					175					180
Leu	Leu	Cys	Gln	Thr	Arg	His	Glu	Arg	Tyr	Phe	Leu	Pro	Pro	Gly
				185					190					195
Val	Arg	Arg	Glu	Pro	Val	Arg	Val	Gly	Arg	Val	Arg	Gly	Thr	Leu
				200					205					210
Phe	Leu	Pro	Pro	Glu	Pro	Gly	Pro	Phe	Pro	Gly	Ile	Val	Asp	Met
				215					220					225
Phe	Gly	Thr	Gly	Gly	Gly	Leu	Leu	Glu	Tyr	Arg	Ala	Ser	Leu	Leu
				230					235					240
Ala	Gly	Lys	Gly	Phe	Ala	Val	Met	Ala	Leu	Ala	Tyr	Tyr	Asn	Tyr
				245					250					255
Glu	Asp	Leu	Pro	Lys	Thr	Met	Glu	Thr	Leu	His	Leu	Glu	Tyr	Phe

	260		265		270
Glu Glu Ala Met	Asn Tyr Leu Leu Ser	His Pro Glu Val Lys	Gly		
	275		280		285
Pro Gly Val Gly	Leu Leu Gly Ile Ser	Lys Gly Gly Glu Leu	Cys		
	290		295		300
Leu Ser Met Ala	Ser Phe Leu Lys Gly	Ile Thr Ala Ala Val	Val		
	305		310		315
Ile Asn Gly Ser	Val Ala Asn Val Gly	Gly Thr Leu Arg Tyr	Lys		
	320		325		330
Gly Glu Thr Leu	Pro Pro Val Gly Val	Asn Arg Asn Arg Ile	Lys		
	335		340		345
Val Thr Lys Asp	Gly Tyr Ala Asp Ile	Val Asp Val Leu Asn	Ser		
	350		355		360
Pro Leu Glu Gly	Pro Asp Gln Lys Ser	Phe Ile Pro Val Glu	Arg		
	365		370		375
Ala Glu Ser Thr	Phe Leu Phe Leu Val	Gly Gln Asp Asp His	Asn		
	380		385		390
Trp Lys Ser Glu	Phe Tyr Ala Asn Glu	Ala Cys Lys Arg Leu	Gln		
	395		400		405
Ala His Gly Arg	Arg Lys Pro Gln Ile	Ile Cys Tyr Pro Glu	Thr		
	410		415		420
Gly His Tyr Ile	Glu Pro Pro Tyr Phe	Pro Leu Cys Arg Ala	Ser		
	425		430		435
Leu His Ala Leu	Val Gly Ser Pro Ile	Ile Trp Gly Gly Glu	Pro		
	440		445		450
Arg Ala His Ala	Met Ala Gln Val Asp	Ala Trp Lys Gln Leu	Gln		
	455		460		465
Thr Phe Phe His	Lys His Leu Gly Gly	His Glu Gly Thr Ile	Pro		
	470		475		480
Ser Lys Val					

<210> 11  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2481345CD1

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 Met Leu Leu Leu Trp Val Ser Val Val Ala Ala Leu Ala Leu Ala  
 1 5 10 15  
 Val Leu Ala Pro Gly Ala Gly Glu Gln Arg Arg Arg Ala Ala Lys  
 20 25 30  
 Ala Pro Asn Val Val Leu Val Val Ser Asp Ser Phe Asp Gly Arg  
 35 40 45  
 Leu Thr Phe His Pro Gly Ser Gln Val Val Lys Leu Pro Phe Ile  
 50 55 60  
 Asn Phe Met Lys Thr Arg Gly Thr Ser Phe Leu Asn Ala Tyr Thr  
 65 70 75  
 Asn Ser Pro Ile Cys Cys Pro Ser Arg Ala Ala Met Trp Ser Gly  
 80 85 90  
 Leu Phe Thr His Leu Thr Glu Ser Trp Asn Asn Phe Lys Gly Leu

	95		100		105
Asp Pro Asn Tyr Thr Thr Trp Met Asp Val Met Glu Arg His Gly					
	110		115		120
Tyr Arg Thr Gln Lys Phe Gly Lys Leu Asp Tyr Thr Ser Gly His					
	125		130		135
His Ser Ile Ser Asn Arg Val Glu Ala					
	140				

<210> 12  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2484020CD1

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Met Met Lys Phe Lys Pro Asn Gln Thr Arg Thr Tyr Asp Arg Glu	
1 5 10 15	
Gly Phe Lys Lys Arg Ala Ala Cys Leu Cys Phe Arg Ser Glu Gln	
20 25 30	
Glu Asp Glu Val Leu Leu Val Ser Ser Arg Tyr Pro Asp Gln	
35 40 45	
Trp Ile Val Pro Gly Gly Gly Met Glu Pro Glu Glu Glu Pro Gly	
50 55 60	
Gly Ala Ala Val Arg Glu Val Tyr Glu Glu Ala Gly Val Lys Gly	
65 70 75	
Lys Leu Gly Arg Leu Leu Gly Ile Phe Glu Asn Gln Asp Arg Lys	
80 85 90	
His Arg Thr Tyr Val Tyr Val Leu Thr Val Thr Glu Ile Leu Glu	
95 100 105	
Asp Trp Glu Asp Ser Val Asn Ile Gly Arg Lys Arg Glu Trp Phe	
110 115 120	
Lys Val Glu Asp Ala Ile Lys Val Leu Gln Cys His Lys Pro Val	
125 130 135	
His Ala Glu Tyr Leu Glu Lys Leu Lys Leu Gly Cys Ser Pro Ala	
140 145 150	
Asn Gly Asn Ser Thr Val Pro Ser Leu Pro Asp Asn Asn Ala Leu	
155 160 165	
Phe Val Thr Ala Ala Gln Thr Ser Gly Leu Pro Ser Ser Val Arg	
170 175 180	

<210> 13  
 <211> 375  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2862528CD1

&lt;400&gt; 13

Met	Ala	Arg	Pro	Gly	Leu	Ile	His	Ser	Ala	Pro	Gly	Leu	Pro	Asp
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Thr	Cys	Ala	Leu	Leu	Gln	Pro	Pro	Ala	Ala	Ser	Ala	Ala	Ala	Ala
				20					25					30
Pro	Ser	Met	Ser	Gly	Pro	Asp	Val	Glu	Thr	Pro	Ser	Ala	Ile	Gln
				35					40					45
Ile	Cys	Arg	Ile	Met	Arg	Pro	Asp	Asp	Ala	Asn	Val	Ala	Gly	Asn
				50					55					60
Val	His	Gly	Gly	Thr	Ile	Leu	Lys	Met	Ile	Glu	Glu	Ala	Gly	Ala
				65					70					75
Ile	Ile	Ser	Thr	Arg	His	Cys	Asn	Ser	Gln	Asn	Gly	Glu	Arg	Cys
				80					85					90
Val	Ala	Ala	Leu	Ala	Arg	Val	Glu	Arg	Thr	Asp	Phe	Leu	Ser	Pro
				95					100					105
Met	Cys	Ile	Gly	Glu	Val	Ala	His	Val	Ser	Ala	Glu	Ile	Thr	Tyr
				110					115					120
Thr	Ser	Lys	His	Ser	Val	Glu	Val	Gln	Val	Asn	Val	Met	Ser	Glu
				125					130					135
Asn	Ile	Leu	Thr	Gly	Ala	Lys	Lys	Leu	Thr	Asn	Lys	Ala	Thr	Leu
				140					145					150
Trp	Tyr	Val	Pro	Leu	Ser	Leu	Lys	Asn	Val	Asp	Lys	Val	Leu	Glu
				155					160					165
Val	Pro	Pro	Val	Val	Tyr	Ser	Arg	Gln	Glu	Gln	Glu	Glu	Glu	Gly
				170					175					180
Arg	Lys	Arg	Tyr	Glu	Ala	Gln	Lys	Leu	Glu	Arg	Met	Glu	Thr	Lys
				185					190					195
Trp	Arg	Asn	Gly	Asp	Ile	Val	Gln	Pro	Val	Leu	Asn	Pro	Gly	Val
				200					205					210
Thr	Met	Lys	Leu	Met	Asp	Glu	Val	Ala	Gly	Ile	Val	Ala	Ala	Arg
				215					220					225
His	Cys	Lys	Thr	Asn	Ile	Val	Thr	Ala	Ser	Val	Asp	Ala	Ile	Asn
				230					235					240
Phe	His	Asp	Lys	Ile	Arg	Lys	Gly	Cys	Val	Ile	Thr	Ile	Ser	Gly
				245					250					255
Arg	Met	Thr	Phe	Thr	Ser	Asn	Lys	Ser	Met	Glu	Ile	Glu	Val	Leu
				260					265					270
Val	Asp	Ala	Asp	Pro	Val	Val	Asp	Ser	Ser	Gln	Lys	Arg	Tyr	Arg
				275					280					285
Ala	Ala	Ser	Ala	Phe	Phe	Thr	Tyr	Val	Ser	Leu	Ser	Gln	Glu	Gly
				290					295					300
Arg	Ser	Leu	Pro	Val	Pro	Gln	Leu	Val	Pro	Glu	Thr	Glu	Asp	Glu
				305					310					315
Lys	Lys	Arg	Phe	Glu	Glu	Gly	Lys	Gly	Arg	Tyr	Leu	Gln	Met	Lys
				320					325					330
Ala	Asn	Asp	Arg	Ala	Thr	Arg	Ser	Leu	Ser	Pro	Arg	Leu	Pro	Pro
				335					340					345
Pro	Ala	Thr	Gly	Ala	Ser	Ser	Ser	His	Gly	Asn	Gly	Pro	Ser	Val
				350					355					360
Gln	Ser	Leu	Arg	Ser	Ser	Pro	Leu	Gly	Gln	Lys	Pro	Asn	Ser	His
				365					370					375

&lt;210&gt; 14

&lt;211&gt; 637

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3200650CD1

&lt;400&gt; 14

Met	Thr	Thr	Trp	Ser	Leu	Arg	Arg	Arg	Pro	Ala	Arg	Thr	Leu	Gly		
1				5					10					15		
Leu	Leu	Leu	Leu	Val	Val	Leu	Gly	Phe	Leu	Val	Leu	Arg	Arg	Leu		
				20					25					30		
Asp	Trp	Ser	Thr	Leu	Val	Pro	Leu	Arg	Leu	Arg	His	Arg	Gln	Leu		
				35					40					45		
Gly	Leu	Gln	Ala	Lys	Gly	Trp	Asn	Phe	Met	Leu	Glu	Asp	Ser	Thr		
				50					55					60		
Phe	Trp	Ile	Phe	Gly	Gly	Ser	Ile	His	Tyr	Phe	Arg	Val	Pro	Arg		
				65					70					75		
Glu	Tyr	Trp	Arg	Asp	Arg	Leu	Leu	Lys	Met	Lys	Ala	Cys	Gly	Leu		
				80					85					90		
Asn	Thr	Leu	Thr	Thr	Tyr	Val	Pro	Trp	Asn	Leu	His	Glu	Pro	Glu		
				95					100					105		
Arg	Gly	Lys	Phe	Asp	Phe	Leu	Trp	Glu	Thr	Trp	Thr	Leu	Lys	Ala		
				110					115					120		
Phe	Val	Leu	Met	Ala	Ala	Glu	Ile	Gly	Leu	Trp	Val	Ile	Leu	Arg		
				125					130					135		
Pro	Gly	Pro	Tyr	Ile	Cys	Ser	Glu	Met	Asp	Leu	Gly	Gly	Leu	Pro		
				140					145					150		
Ser	Trp	Leu	Leu	Gln	Asp	Pro	Gly	Met	Arg	Leu	Arg	Thr	Thr	Tyr		
				155					160					165		
Lys	Gly	Phe	Thr	Glu	Ala	Val	Asp	Leu	Tyr	Phe	Asp	His	Leu	Met		
				170					175					180		
Ser	Arg	Val	Val	Pro	Leu	Gln	Tyr	Lys	Arg	Gly	Gly	Pro	Ile	Ile		
				185					190					195		
Ala	Val	Gln	Val	Glu	Asn	Glu	Tyr	Gly	Ser	Tyr	Asn	Lys	Asp	Pro		
				200					205					210		
Ala	Tyr	Met	Pro	Tyr	Val	Lys	Lys	Ala	Leu	Glu	Asp	Arg	Gly	Ile		
				215					220					225		
Val	Glu	Leu	Leu	Leu	Thr	Ser	Asp	Asn	Lys	Asp	Gly	Leu	Ser	Lys		
				230					235					240		
Gly	Ile	Val	Gln	Gly	Val	Leu	Ala	Thr	Ile	Asn	Leu	Gln	Ser	Thr		
				245					250					255		
His	Glu	Leu	Gln	Leu	Leu	Thr	Thr	Phe	Leu	Phe	Asn	Val	Gln	Gly		
				260					265					270		
Thr	Gln	Pro	Lys	Met	Val	Met	Glu	Tyr	Trp	Thr	Gly	Trp	Phe	Asp		
				275					280					285		
Ser	Trp	Gly	Gly	Pro	His	Asn	Ile	Leu	Asp	Ser	Ser	Glu	Val	Leu		
				290					295					300		
Lys	Thr	Val	Ser	Ala	Ile	Val	Asp	Ala	Gly	Ser	Ser	Ile	Asn	Leu		
				305					310					315		
Tyr	Met	Phe	His	Gly	Gly	Thr	Asn	Phe	Gly	Phe	Met	Asn	Gly	Ala		
				320					325					330		
Met	His	Phe	His	Asp	Tyr	Lys	Ser	Asp	Val	Thr	Ser	Tyr	Asp	Tyr		
				335					340					345		
Asp	Ala	Val	Leu	Thr	Glu	Ala	Gly	Asp	Tyr	Thr	Ala	Lys	Tyr	Met		

	350		355		360
Lys Leu Arg Asp	Phe Phe Gly Ser Ile	Ser Gly Ile Pro Leu	Pro		
	365		370		375
Pro Pro Pro Asp	Leu Leu Pro Lys Met	Pro Tyr Glu Pro Leu	Thr		
	380		385		390
Pro Val Leu Tyr	Leu Ser Leu Trp Asp	Ala Leu Lys Tyr Leu	Gly		
	395		400		405
Glu Pro Ile Lys	Ser Glu Lys Pro Ile	Asn Met Glu Asn Leu	Pro		
	410		415		420
Val Asn Gly Gly	Asn Gly Gln Ser Phe	Gly Tyr Ile Leu Tyr	Glu		
	425		430		435
Thr Ser Ile Thr	Ser Ser Gly Ile Leu	Ser Gly His Val His	Asp		
	440		445		450
Arg Gly Gln Val	Phe Val Asn Thr Val	Ser Ile Gly Phe Leu	Asp		
	455		460		465
Tyr Lys Thr Thr	Lys Ile Ala Val Pro	Leu Ile Gln Gly Tyr	Thr		
	470		475		480
Val Leu Arg Ile	Leu Val Glu Asn Arg	Gly Arg Val Asn Tyr	Gly		
	485		490		495
Glu Asn Ile Asp	Asp Gln Arg Lys Gly	Leu Ile Gly Asn Leu	Tyr		
	500		505		510
Leu Asn Asp Ser	Pro Leu Lys Asn Phe	Arg Ile Tyr Ser Leu	Asp		
	515		520		525
Met Lys Lys Ser	Phe Phe Gln Arg Phe	Gly Leu Asp Lys Trp	Ser		
	530		535		540
Ser Leu Pro Glu	Thr Pro Thr Leu Pro	Ala Phe Phe Leu Gly	Ser		
	545		550		555
Leu Ser Ile Ser	Ser Thr Pro Cys Asp	Thr Phe Leu Lys Leu	Glu		
	560		565		570
Gly Trp Glu Lys	Gly Val Val Phe Ile	Asn Gly Gln Asn Leu	Gly		
	575		580		585
Arg Tyr Trp Asn	Ile Gly Pro Gln Lys	Thr Leu Tyr Leu Pro	Gly		
	590		595		600
Pro Trp Leu Ser	Ser Gly Ile Asn Gln	Val Ile Val Phe Glu	Glu		
	605		610		615
Thr Met Ala Gly	Pro Ala Leu Gln Phe	Thr Glu Thr Pro His	Leu		
	620		625		630
Gly Arg Asn Gln	Tyr Ile Lys				
	635				

<210> 15

<211> 314

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4107621CD1

<400> 15

Met Ser Glu Asn Ala Ala Pro Gly Leu Ile Ser Glu Leu Lys Leu		
1 5 10 15		
Ala Val Pro Trp Gly His Ile Ala Ala Lys Ala Trp Gly Ser Leu		
20 25 30		

Gln	Gly	Pro	Pro	Val	Leu	Cys	Leu	His	Gly	Trp	Leu	Asp	Asn	Ala	
				35					40						45
Ser	Ser	Phe	Asp	Arg	Leu	Ile	Pro	Leu	Leu	Pro	Gln	Asp	Phe	Tyr	
				50					55						60
Tyr	Val	Ala	Met	Asp	Phe	Gly	Gly	His	Gly	Leu	Ser	Ser	His	Tyr	
				65					70						75
Ser	Pro	Gly	Val	Pro	Tyr	Tyr	Leu	Gln	Thr	Phe	Val	Ser	Glu	Ile	
				80					85						90
Arg	Arg	Val	Val	Ala	Ala	Leu	Lys	Trp	Asn	Arg	Phe	Ser	Ile	Leu	
				95					100						105
Gly	His	Ser	Phe	Gly	Gly	Val	Val	Gly	Gly	Met	Phe	Phe	Cys	Thr	
				110					115						120
Phe	Pro	Glu	Met	Val	Asp	Lys	Leu	Ile	Leu	Leu	Asp	Thr	Pro	Leu	
				125					130						135
Phe	Leu	Leu	Glu	Ser	Asp	Glu	Met	Glu	Asn	Leu	Leu	Thr	Tyr	Lys	
				140					145						150
Arg	Arg	Ala	Ile	Glu	His	Val	Leu	Gln	Val	Glu	Ala	Ser	Gln	Glu	
				155					160						165
Pro	Ser	His	Val	Phe	Ser	Leu	Lys	Gln	Leu	Leu	Gln	Arg	Leu	Leu	
				170					175						180
Lys	Ser	Asn	Ser	His	Leu	Ser	Glu	Glu	Cys	Gly	Glu	Leu	Leu	Leu	
				185					190						195
Gln	Arg	Gly	Thr	Thr	Lys	Val	Ala	Thr	Gly	Leu	Val	Leu	Asn	Arg	
				200					205						210
Asp	Gln	Arg	Leu	Ala	Trp	Ala	Glu	Asn	Ser	Ile	Asp	Phe	Ile	Ser	
				215					220						225
Arg	Glu	Leu	Cys	Ala	His	Ser	Ile	Arg	Lys	Leu	Gln	Ala	His	Val	
				230					235						240
Leu	Leu	Ile	Lys	Ala	Val	His	Gly	Tyr	Phe	Asp	Ser	Arg	Gln	Asn	
				245					250						255
Tyr	Ser	Glu	Lys	Glu	Ser	Leu	Ser	Phe	Met	Ile	Asp	Thr	Met	Lys	
				260					265						270
Ser	Thr	Leu	Lys	Glu	Gln	Phe	Gln	Phe	Val	Glu	Val	Pro	Gly	Asn	
				275					280						285
His	Cys	Val	His	Met	Ser	Glu	Pro	Gln	His	Val	Ala	Ser	Ile	Ile	
				290					295						300
Ser	Ser	Phe	Leu	Gln	Cys	Thr	His	Met	Leu	Pro	Ala	Gln	Leu		
				305					310						

&lt;210&gt; 16

&lt;211&gt; 448

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4661133CD1

&lt;400&gt; 16

Met	Arg	Arg	Ala	Ala	Leu	Arg	Leu	Cys	Ala	Leu	Gly	Lys	Gly	Gln	
1				5					10						15
Leu	Thr	Pro	Gly	Arg	Gly	Leu	Thr	Gln	Gly	Pro	Gln	Asn	Pro	Lys	
				20					25						30
Lys	Gln	Gly	Ile	Phe	His	Ile	His	Glu	Ala	Cys	Ser	Ser	Ile	His	



	35		40		45
Val Asn His Val	Arg Asp Lys Leu Arg	Glu Ile Val Gly Ala Ser			
	50		55		60
Thr Asn Trp Arg	Asp His Val Lys Ala Met	Glu Glu Arg Lys Leu			
	65		70		75
Leu His Ser Phe	Leu Ala Lys Ser Gln Asp	Gly Leu Pro Pro Arg			
	80		85		90
Arg Met Lys Asp	Ser Tyr Ile Glu Val Leu	Leu Pro Leu Gly Ser			
	95		100		105
Glu Pro Glu Leu	Arg Glu Lys Tyr Leu Thr	Val Gln Asn Thr Val			
	110		115		120
Arg Phe Gly Arg	Ile Leu Glu Asp Leu Asp	Ser Leu Gly Val Leu			
	125		130		135
Ile Cys Tyr Met	His Asn Lys Ile His Ser	Ala Lys Met Ser Pro			
	140		145		150
Leu Ser Ile Val	Thr Ala Leu Val Asp Lys	Ile Asp Met Cys Lys			
	155		160		165
Lys Ser Leu Ser	Pro Glu Gln Asp Ile Lys	Phe Ser Gly His Val			
	170		175		180
Ser Trp Val Gly	Lys Thr Ser Met Glu Val	Lys Met Gln Met Phe			
	185		190		195
Gln Leu His Gly	Asp Glu Phe Cys Pro Val	Leu Asp Ala Thr Phe			
	200		205		210
Val Met Val Ala	Arg Asp Ser Glu Asn Lys	Gly Pro Ala Phe Val			
	215		220		225
Asn Pro Leu Ile	Pro Glu Ser Pro Glu Glu	Glu Glu Leu Phe Arg			
	230		235		240
Gln Gly Glu Leu	Asn Lys Gly Arg Arg Ile	Ala Phe Ser Ser Thr			
	245		250		255
Ser Leu Leu Lys	Met Ala Pro Ser Ala Glu	Glu Glu Arg Thr Thr Ile			
	260		265		270
His Glu Met Phe	Leu Ser Thr Leu Asp Pro	Lys Thr Ile Ser Phe			
	275		280		285
Arg Ser Arg Val	Leu Pro Ser Asn Ala Val	Trp Met Glu Asn Ser			
	290		295		300
Lys Leu Lys Ser	Leu Glu Ile Cys His Pro	Gln Glu Arg Asn Ile			
	305		310		315
Phe Asn Arg Ile	Phe Gly Gly Phe Leu Met	Arg Lys Ala Tyr Glu			
	320		325		330
Leu Ala Trp Ala	Thr Ala Cys Ser Phe Gly	Gly Ser Arg Pro Phe			
	335		340		345
Val Val Ala Val	Asp Asp Ile Met Phe Gln	Lys Pro Val Glu Val			
	350		355		360
Gly Ser Leu Leu	Phe Leu Ser Ser Gln Val	Cys Phe Thr Gln Asn			
	365		370		375
Asn Tyr Ile Gln	Val Arg Val His Ser Glu	Val Ala Ser Leu Gln			
	380		385		390
Glu Lys Gln His	Thr Thr Thr Asn Val Phe	His Phe Thr Phe Met			
	395		400		405
Ser Glu Lys Glu	Val Pro Leu Val Phe Pro	Lys Thr Tyr Gly Glu			
	410		415		420
Ser Met Leu Tyr	Leu Asp Gly Gln Arg His	Phe Asn Ser Met Ser			
	425		430		435
Gly Pro Ala Thr	Leu Arg Lys Asp Tyr Leu	Val Glu Pro			
	440		445		

<210> 17  
 <211> 723  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2293764CB1

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 gcagcaacag agttgcaggt gtaaaataac gggaaggcgg gatgcgtggc taaattgctc 60  
 tgcgtgcaca aagagtagga gagcccagag ttccagaatg cccctaattc cgaacaccac 120  
 aggggtgagtc tggagcaagt cacctgggag ggcttacagg tgccataatg aaggcctggg 180  
 gcaactgtggt agtgaccttg gccacgctga tggttgtcac tgtggatgcc aagatctatg 240  
 aactctgcga gctggcggca agactggaga gagcagggct gaacggctac aagggtctacg 300  
 gcgttggaga ctggctgtgc atggctcatt atgagagtgg ctttgacacc gccttcgtgg 360  
 accacaatcc tgatggcagc agtgaatatg gcattttcca actgaattct gcctgggtgg 420  
 gtgacaatgg cattacaccc accaagaacc tctgccacat ggattgtcat gacctgctca 480  
 atcgccatat tctggatgac atcagggtgtg ccaagcagat tgtgtcctca cagaatgggc 540  
 tttctgcctg gacttcttgg aggtacact gttctggcca tgatttatct gaatggctca 600  
 aggggtgtga tatgcatgtg aaaattgatc caaaaattca tccatgactc agattcgaag 660  
 agacagattt tatcttcctt tcatttcttc atattgtcac ttaataaaag gatgggtactc 720  
 gtc 723

<210> 18  
 <211> 1228  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 949738CB1

<400> 18  
 cccggagccg ccagaccgtc gcgcccctgc cccatcgtag tatatgagct cgcctacaca 60  
 aggacccccg ctaaaagcca gagctcccag tccccgaggc ttgaagacgg ggactccctt 120  
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&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1553276CB1

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 1702211CB1

&lt;400&gt; 21

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<213> Homo sapiens

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<210> 25
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<212> DNA
<213> Homo sapiens

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<220>
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<210> 26
<211> 1868
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 2447520CB1

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&lt;210&gt; 27

&lt;211&gt; 688

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2481345CB1

&lt;400&gt; 27

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&lt;210&gt; 28



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&lt;210&gt; 31

&lt;211&gt; 1340

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&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4107621CB1

&lt;400&gt; 31

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 <213> Colobus guereza

<300>  
 <308> GenBank ID No: g1790927

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	35		40		45									
Trp	Val	Cys	Leu	Ala	Lys	Trp	Glu	Ser	Gly	Tyr	Asn	Thr	Asp	Ala
	50		55		60									
Thr	Asn	Tyr	Asn	Pro	Gly	Asp	Glu	Ser	Thr	Asp	Tyr	Gly	Ile	Phe
	65		70		75									
Gln	Ile	Asn	Ser	Arg	Tyr	Trp	Cys	Asn	Asn	Gly	Lys	Thr	Pro	Gly
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Ala	Val	Asn	Ala	Cys	His	Ile	Ser	Cys	Asn	Ala	Leu	Leu	Gln	Asn
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&lt;210&gt; 34

&lt;211&gt; 148

&lt;212&gt; PRT

<213> *Colobus angolensis*

&lt;300&gt;

&lt;308&gt; GenBank ID No: g1790967

&lt;400&gt; 34

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			20				25							30
Lys	Lys	Leu	Gly	Leu	Asp	Gly	Tyr	Lys	Gly	Val	Ser	Leu	Ala	Asn
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Trp	Val	Cys	Leu	Ala	Lys	Trp	Glu	Ser	Gly	Tyr	Asn	Thr	Asp	Ala
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Thr	Asn	Tyr	Asn	Pro	Gly	Asp	Glu	Ser	Thr	Asp	Tyr	Gly	Ile	Phe
			65				70							75
Gln	Ile	Asn	Ser	Arg	Tyr	Trp	Cys	Asn	Asn	Gly	Lys	Thr	Pro	Gly
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Ala	Val	Asn	Ala	Cys	His	Ile	Ser	Cys	Asn	Ala	Leu	Leu	Gln	Asn
			95				100							105
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Pro	Gln	Gly	Ile	Arg	Ala	Trp	Val	Ala	Trp	Lys	Lys	His	Cys	Gln
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Asn	Arg	Asp	Val	Ser	Gln	Tyr	Val	Glu	Gly	Cys	Gly	Val		
			140				145							

&lt;210&gt; 35

&lt;211&gt; 148

&lt;212&gt; PRT

<213> *Nasalis larvatus*

<308> GenBank ID No: g1790984

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Lys	Lys	Leu	Gly	Leu	Asp	Gly	Tyr	Lys	Gly	Val	Ser	Leu	Ala	Asn
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Trp	Val	Cys	Leu	Ala	Lys	Trp	Glu	Ser	Gly	Tyr	Asn	Thr	Glu	Ala
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Thr	Asn	Tyr	Asn	Pro	Gly	Asp	Glu	Ser	Thr	Asp	Tyr	Gly	Ile	Phe
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Gln	Ile	Asn	Ser	Arg	Tyr	Trp	Cys	Asn	Asn	Gly	Lys	Thr	Pro	Gly
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Ala	Val	Asp	Ala	Cys	His	Ile	Ser	Cys	Ser	Ala	Leu	Leu	Gln	Asn
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Asn	Ile	Ala	Asp	Ala	Val	Ala	Cys	Ala	Lys	Arg	Val	Val	Ser	Asp
				110					115					120
Pro	Gln	Gly	Ile	Arg	Ala	Trp	Val	Ala	Trp	Arg	Asn	His	Cys	Gln
				125					130					135
Asn	Arg	Asp	Val	Ser	Gln	Tyr	Val	Lys	Gly	Cys	Gly	Val		
				140					145					